## **DATA SHEET**

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11165906 Three-Phase : 404/5T Frame Locked rotor time : 52s (cold) 29s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. : IP55 Protection degree Rated current : 48.2 A L. R. Amperes : 347 A Cooling method : IC411 - TEFC **LRC** : 7.2x(Code H) Mounting : F-1 No load current : 19.6 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 880 rpm Noise level<sup>2</sup> : 60.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 41.2 kgfm Approx. weight<sup>3</sup> : 504 kg Locked rotor torque : 170 % Breakdown torque : 260 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 1.46 kgm<sup>2</sup> Design : B 50% 75% 100% Foundation loads Output Efficiency (%) 93.0 93.0 93.0 Max. traction : 804 kgf Max. compression Power Factor 0.68 0.78 0.83 : 1308 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P1 (0,9;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 7.3 6.3 3.0 1.3 0.9 6.3 2.2 Drive end Non drive end Bearing type 6316 C3 6314 C3 WSeal WSeal Sealing 20000 h Lubrication interval 20000 h Lubricant amount 34 g 27 g Lubricant type Mobil Polyrex EM Notes This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.

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## LOAD PERFORMANCE CURVE

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Customer :

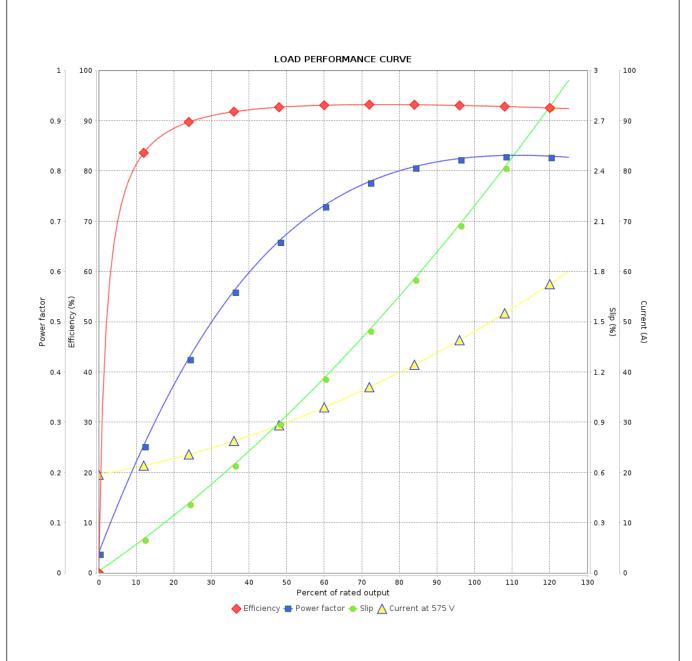
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

11165906

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Performance	: 57	: 575 V 60 Hz 8P							
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue : 170 e : 260	2 kgfm 0 %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.46 kgm² : Cont.(S1) : F : 1.25 : 80 K : B				
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